Item	Qty -143	Part Number	Description					
	Х	D350-748-143	CROSSTUBE ASSEMBLY (AS 350/355 HI FWD)					
1	1	D6021-125	CROSSTUBE					
2	2	D3502-1	SUPPORT					
3	2	D5123-7	CLAMP CUSHION					
4	1	AETC-1032	INSERT					
5	2	MS21920-20 OR MS21920-21/-22	CLAMP (PER DART SPEC. M-MS21920-20/-21/-22)					
6	1	NAS1149C0363R	WASHER (OR AN960C10)					
7	1	NAS1635-3-8	SCREW (OR MS51958-63)					
8	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2					

## **GENERAL NOTES:**

1) MATERIAL: MANUFACTURED FROM D6021-125 (17-4PH)

FINISHED LENGTH AFTER TURNING = 112.270±0.06 (AFTER BENDING/TRIMMING = 110.27 REF)

2) FINISH: PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

3) TOLERANCE: PER DART QSI 018 UNLESS OTHERWISE NOTED.

WALL THICKNESS ECCENTRICITY PER DART QSI 038 7.2

MIN. ALLOWABLE WALL IS -0.020 FROM NOMINAL

4) UNITS: INCHES UNLESS OTHERWISE NOTED.

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX.

- 6) IDENTIFICATION: DART PART NUMBER "D350-748-143" AND BATCH NUMBER ON INSIDE OF CUFF PER DART QSI 044 6.4 (VIBRATING STYLUS)
- 7) WEIGHT: 30.45 lbs
- 8) PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR Ø0.290 HOLE.
- 9) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.

### TURNING

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10) BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.

### BENDING

- 11) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES PER SIDE. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D. ON TOP HALF OF BEND, AND 8% ON BOTTOM HALF OF BEND.
- 12) MAX AMPLITUDE OF RIPPLING ALONG BENT PORTION OF THE TUBE IS 0.030 (ZN A1-3)
- 13) MAX TWIST: WITH XTUBE LAYED FLAT ON SURFACE, THE DIFFERENCE BETWEEN CUFF HEIGHTS FROM THE SURFACE MAY BE NO LARGER THAN 0.38 (ZN C1-3).

### ASSEMBL'

- 14) TO INSTALL D3502-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.02" TO 0.05" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 60 TÓ 80 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

DEO ATTACHED

RELEASED
2015 MAR 18

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Α **NEW ISSUE** 15.01.21 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE LTD a DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED A.P. DRAWING NO. REV. A MFG. APPR. D350-748-143 SHEET 1 OF 4 **APPROVED** TITLE SCALE DE APPR CROSSTUBE (AS 350/355 HI FWD) NTS COPYRIGHT @ 2015 BY DART AEROSPACE LTD DATE THIS DOCUMENT IS PRIVATE AND OCHTEMENTAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DATA EROSPACE LTD. 15.01.21

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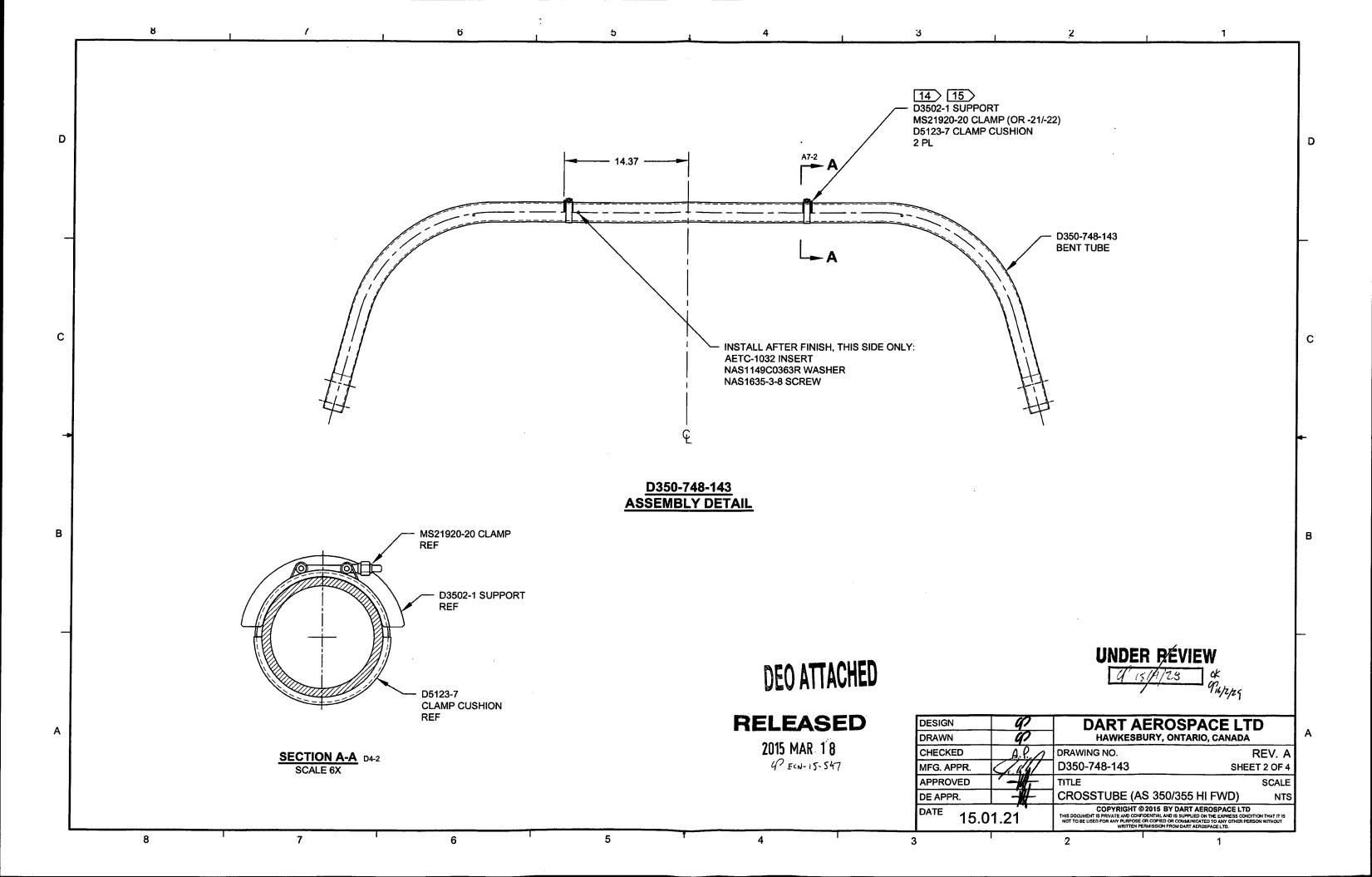
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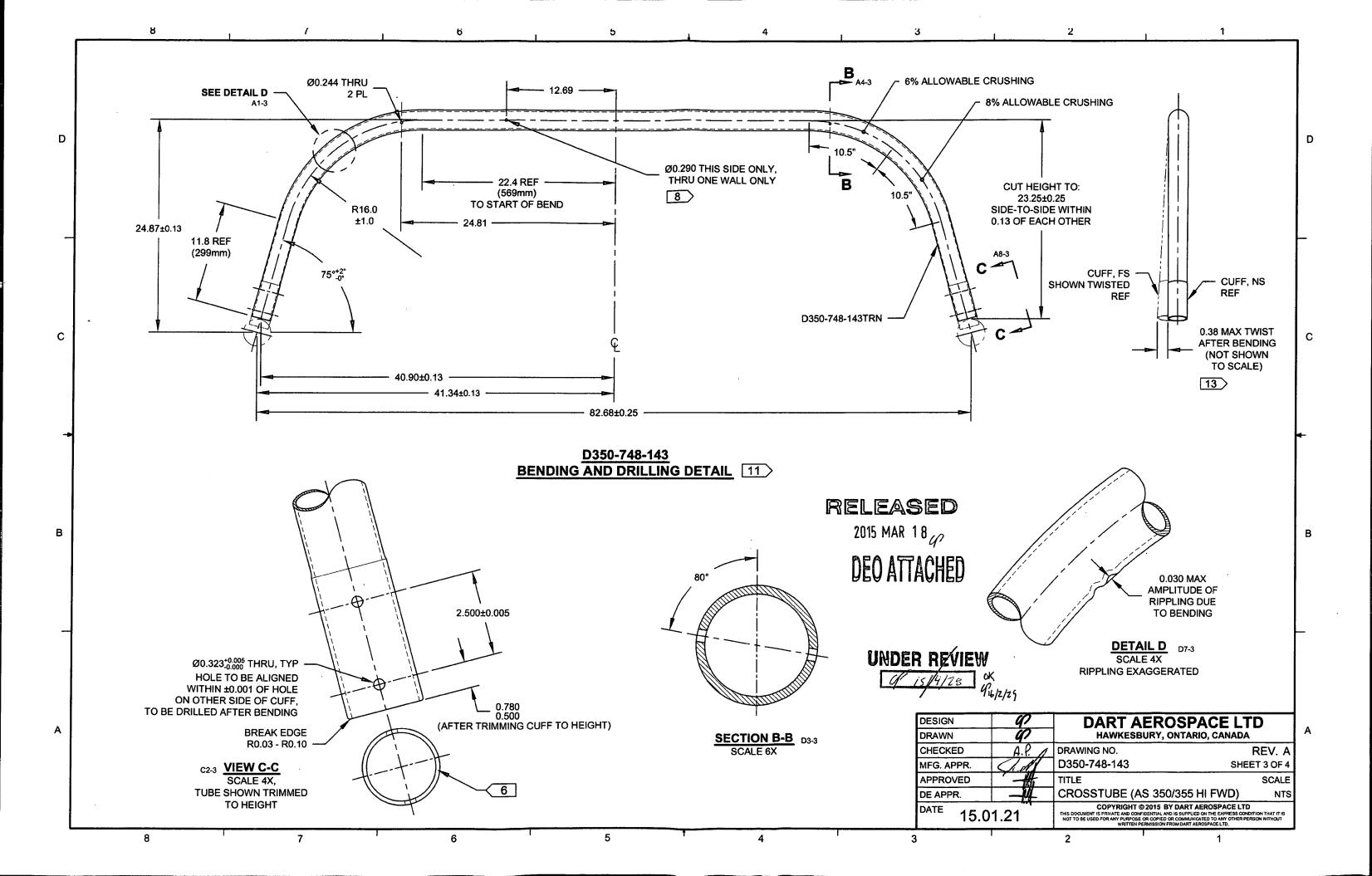
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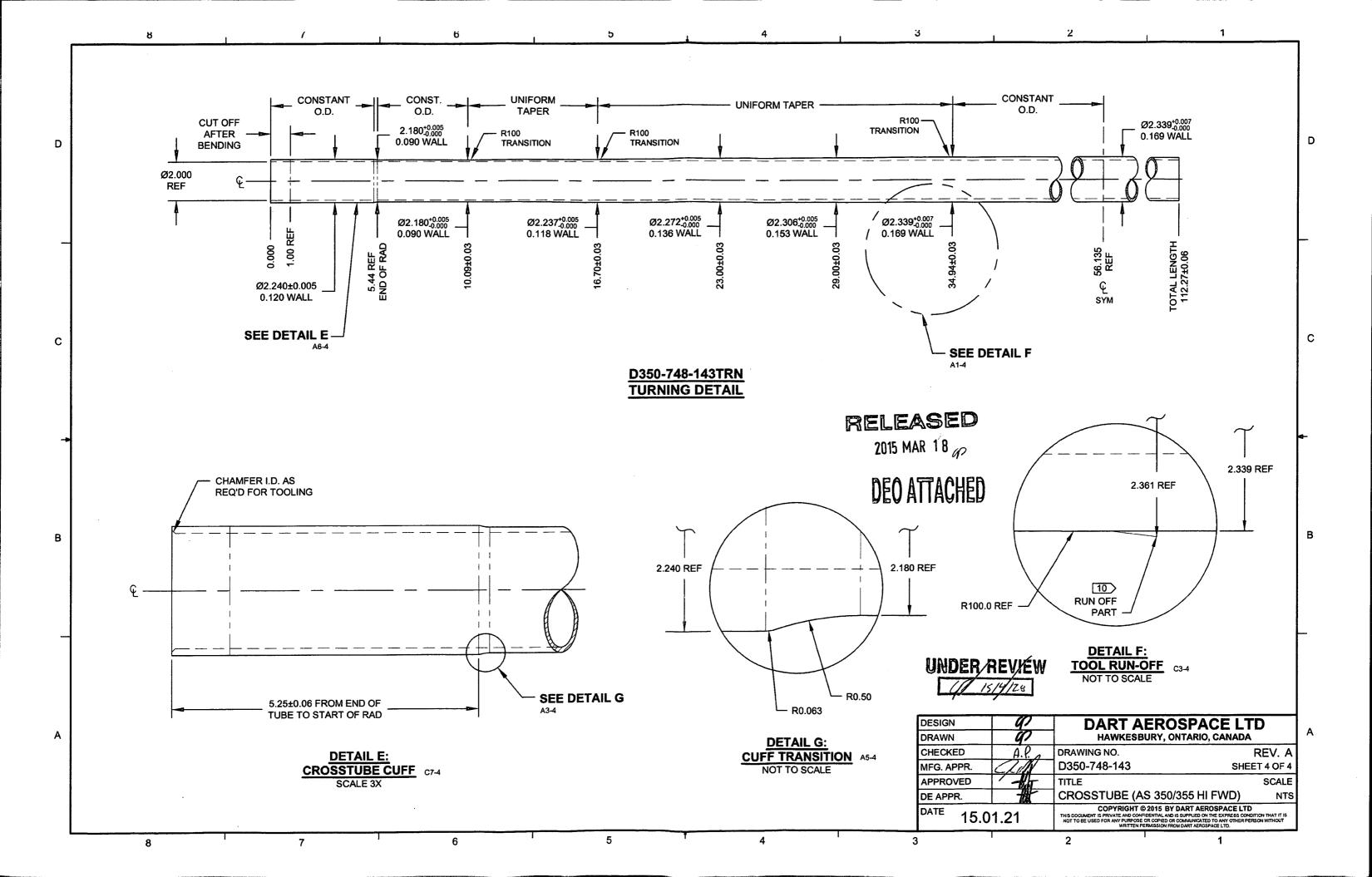
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DRAWING	NO.	TITLE		REV. A	DART AEROS	SPACE LTD	D.E.O. 1	NO.		SHEET N	Ο.	SCALE
D350-748-143   CROSSTUBE			ENGINEERING ORDER		D350-	D350-748-143-A-1		SHEET 1 OF 1		NTS		
DRAWN	P		CHECKED 15		MFG. APPR.	N	APPROVED	(4)	1	DE APPR.		
DATE	15.11.	18	DATE 15.11.1	8	DATE	16.07.19	DATE	EED 1 0 20	ie .	DATE 201	6.02.19	7

# AMEND NOTE 2 (SHEET 1) AS FOLLOWS:

2) FINISH: PREPARE SURFACE PER DART QSI 005 4.1.4

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

OR

POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3

